Part V

Principle Three: Scientifically Based Research Programs

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evidence that the program to be used will reduce violence and illegal drug use A grant recipient's program shall be based on scientifically based research that provides

Please check off your compliance with the following requirements:²

- Program activities are designed to meet goals and objectives
- 囨 Programs are selected and activities are designed to meet the needs identified in the needs assessment
- 囨 The programs and activities selected for funding (check at least one below):

Have demonstrated effectiveness

Show promise

component to evaluate impact upon the target population Are self-developed based on best practice, and have an evaluation

☑ Ongoing program review/assessment is in place

"Effective Programs" are research-based programs that have been demonstrated to be effective in preventing or reducing drug use, violence, or disruptive behavior, or in use or violence.² modifying behavior or attitudes demonstrated to be precursors or predictors or drug

Districts must evaluate these programs, locally, as part of their requirements under Principle Four: Assessment of Objective Data and Evaluation.³ REPLICATES the program as it was originally conceptualized, implemented, and tested. Districts should take care that they implement the program in a manner that FAITHFULLY

"Promising Programs" are research-based programs that incorporate research-based violent behavior.³ behavior or modify attitudes that are predictors of, or precursors to, drug use or strategies or approaches which have demonstrated that they reduce drug use or violent

districts may choose to implement programs that show promise of being effective locally developed programs that may be effective but have not been rigorously evaluated To continue to give flexibility in selecting programs and to permit the implementation of

or predictors of drug use or violence. At the end of the two year period, districts that disruptive behavior, or in modifying behaviors or attitudes demonstrated to be precursors to, cannot meet this test must select another program for implementation or discontinue years of implementation, must be prepared to demonstrate to the Office of Drug Control funding the program with Title IV-SDFSCA funds. Policy that the program has been effective in preventing or reducing drug use, violence, or Districts that choose to implement a promising program, at the end of no more than two

- "Self developed programs" are locally designed or developed programs which are based on best practice, incorporate effective strategies or approaches, **and** have an evaluation component to evaluate the impact on the target population.²
- "Un-approved Activities" One-time or stand alone events, programs whose primary purpose programs whose <u>primary</u> purpose is to provide alternative activities (unconnected to an effective or promising program).² is to provide recreational opportunities, programs whose sole purpose is to educate, or

challenges which do not include a specific component related to changing attitudes and/or group of students participating in the prevention program, drug-free dances, outdoor For example: assemblies for all students when the program is only designed for a specific and motivate. behaviors around ATOD and/or violence, programs whose primary purpose is to entertain

shows evidence of prevention or reduction in ATOD use and/or violent or disruptive behavior. Activities alone to not constitute a program.² Please keep in mind that an approved program must be based on research or evaluation that

Programs Based on Research -Required Elements-4

- 1. All nationally or locally designed Safe, Drug-Free Schools and Communities funded programs must be based on research.
- 5 All programs must measure their impact on student attitudes or behaviors in one or more of the following areas:
- A. Alcohol or other drug use
- B. Violent Behaviors
- C. Disruptive Behaviors
- 3. Programs may measure the following:

disruptive behaviors. Predictors or the precursors for alcohol or other drug use, violent behaviors or

Required Criteria for Selecting Nationally Recognized Programs³ **Programs Based on Research**

- Program was based on a theory of behavior or attitude change.
- ? Program was conducted over several weeks or months to make changes in youth.
- ω Program used quality sampling in the design of pilot projects
- Program used high quality, relevant, statistically valid measurements of attitude or to measure risk behaviors or attitude toward risk behaviors. behavior change. Change in knowledge is an insufficient measurement. Programs need
- 5 Program used rigorous data collection and analysis methods
- 6. Program design eliminated compounding variables.
- .7 Program design and implementation used control or comparison groups.
- <u>∞</u> Pre and post measurements were used to determine the impact of the program.
- 9. Post measurements were conducted at least four weeks after the program.
- 10. Program demonstrated a sustained effort over a long period of time
- 11. Program was suited for multiple site replication with diverse populations.
- 12. Programs need to provide new customers with the following:
- A. Program objectives clear, measurable objectives
- B. Curriculum outline or guide for implementing activities
- C. Research or evaluation results to support the program
- Pre and post evaluation instruments for use with new students

☑ Check-Off Sheet for Criteria for Effective Research Based Programs³

Target Population

Whom was the program designed to serve? What age group and/or grade levels?

Primary grades – children, parents and teachers
Upper Elementary grades – parents, teachers and peers

Jr. High/Middle School – peers and role models

High School - individual identity, peers and role models

Is the targeted population similar to students in your own district?

What level of risk group does the program target?

Is the program for everyone? (i.e. as all 7th grade students, all K-12?)

achievers, children from economically disadvantaged families? Does the program target groups at risk, such as children of drug users, poor schools

Does the program target individuals who have been expelled, suspended, on abused or who are teenage parents? probation, frequent runaways, school truants, delinquents, sexually active, sexually

Program Core Elements

Program Structure – how the program is organized and constructed

Does the program provide multiple years of prevention or intervention?

How many sessions/modules are provided per year? (i.e. 10-15 sessions in year 1 and 8 booster sessions per year over the next 2-3 years)

How many booster sessions are provided for the following years?

Are detailed lesson plans provided? How many?

Are student materials provided?

Are the materials age-appropriate?

Are student assessment measures included?

Is there a standardized pre/post measure?

Is the pre/post measure age-appropriate?

Is the pre/post measure culture appropriate?

Is this a school-based prevention program?

Is this predominantly a curriculum-based prevention program?

Program Content – The information and/or education components of the program

Does the Program teach skill-building techniques? These include: General Self-Management Skills³

Problem solving skills

Decision making skills

Coping strategies or skills

Behavioral relaxation techniques

Anger management

Stress management

Anxiety management

Self control techniques (self-reinforcement, self-instruction, goal setting, principles of self-change)

General Social Competence³

skills) Interpersonal skills (initiating social interactions, complimenting, conversational

General assertive skills (making requests, saying no, expressing feelings and concerns)

Social Resistance Skills

Short and long term consequences of drug use

Factual information about the actual levels of drug use among adults and

adolescence

Social stigma and physiological effects of cigarette smoking

Media pressure to smoke, drink and use drugs

promote the use of these drugs Advertising techniques employed by tobacco and alcoholic beverage industries to

Skills on how to resist both media and peer pressure to use

Teach students how to say no (focus on the content and delivery of the message)

Are the techniques above age-appropriate?

Are the techniques above culture-appropriate?

Does the program promote pro-social bonding? Pro-social bonding includes:

Building attachments to schools or parents

Building beliefs in the validity of laws and rules

Building commitments to education and occupation

Does the program promote positive peer influence?

Program Delivery – how the program is given to and received by the audience

Does the program use interactive methods to teach skills?

Role-playing Group discussion

Modeling

Instruction

Group Feedback

Extended practice (behavioral rehearsal)

Reinforcement

Does the program use other methods to teach skills?

Films, videos, computers

Speakers

One-on-one contact

Are the methods for this program age-appropriate?

Art the methods for this program culture-appropriate?

Does the training ensure that the curriculum will be delivered as to maintain program fidelity (accurateness of program details)?

Research Support for Program and/or Strategy³

Do the research findings show that the strategies used have been effective?

Has the program demonstrated reduced ATOD use?

Has the program demonstrated reduced violent behavior?

Has the program been shown to change attitudes toward not using ATOD?

Has the program demonstrated a change for attitudes against the use of violence?

Examples of research results as these appear in the literature

Proportion of experimental group smoking declined by the end of treatment, whereas comparison group smoking did not decline

Less smoking behavior and fewer intentions to smoke for experimental subjects at the end of the 8th and 9th grades

Is the program based on a particular theory accepted by experts in the field?

Did the program produce the desired changes in the target population? Does the theory provide a logical explanation for why the program works?

Was the research conducted by reputable researchers and published in a reputable

Peer-reviewed journal Referral journal

Did the study use a rigorous evaluation design?

Was an experimental vs. control group design using random assignment (experimental design) used?

Was experimental vs. control group not randomly assigned (quasi-experimental design) used?

Has the study been replicated at more than one site?

Have the results been duplicated?

Was the program implemented by school staff in the study?

Is the program cost-effective? Were the students in the study similar to students in the school district?

Program Providers – the individuals who deliver the program³

Who delivers the program?

Peer leaders

Mentors

Teachers

Community prevention specialists

Outside (program) agency staff?

Law officers

Is the training offered for delivering the program the way in which it was intended to be delivered?

Does the training offer "booster" or continued support sessions to reinforce delivering the program as intended?

Applying Effective Strategies⁵

combination of strategies that aim: classroom and school levels but also at the family, community and society levels – a abuse and violent behavior among youth, school-based prevention should also be coordinated with broader environmental and other strategies that not only address change at the individual, important and necessary, alone they are insufficient. To prevent or reduce rates of substance problems young people face. While curriculum and instructional programs have been curricula and instructional programs to address substance abuse, violence and many other Traditionally, schools have been primarily responsible for developing and implementing

ownership of these programs and violence prevention programs and ultimately encourage community and family To involve families and communities in the design and delivery of substance abuse

To influence the larger social and legal context that shapes attitudes and beliefs makers, and the media to gain understanding of and support for prevention regarding substance abuse and violence (e.g. educating the larger public, policy

To create or enforce existing laws and regulations designed to limit or prohibit holding parents, outlets and servers responsible for providing alcohol to those substance abuse and violent behavior (e.g. enforcing age 21 drinking laws and underage)

To provide alternatives to substance abuse and violence through social and recreational activities and mentoring

agencies, such as social service, youth protection, community police and recreational Such strategies demand that schools reach out to collaborate with families and other ventures to create prevention programs.

What is Meant by the Term "Effective"?5

outcomes. That is, the program demonstrates effectiveness in: An effective program is one that meets its objectives in terms of producing positive

- P preventing or reducing substance abuse or violent and disruptive behavior
- ጀ changing the knowledge, attitudes or beliefs that lead to substance abuse and violent behavior
- $\dot{\Omega}$ promoting or strengthening behavior and skills, such as good interpersonal and violent behavior problem – solving skills, that are associated with the preventing substance abuse

that are generalizable to populations other than the ones with which it was needed Ideally, the program also demonstrated a sustained effect and produces positive outcomes

Examples of Effective Programs⁵

and "promising". This is not an exhaustive list of programs. It is primarily a list created to program list and concluded, upon further investigation of the literature (i.e. individual effective in at least one evaluation of the research on prevention programs. The United provide a foundation for understanding and applying the Principles of Effectiveness. program evaluations) that the program summaries to organized into categories of "effective" States Department of Education and the Educational Development Center staff reviewed the The literature review revealed approximately 52 research-based programs described as

summarized in a set of Program Fact Sheets. These fact sheets were developed with input from the New England SDFSC coordinators and officials at the United States Department of Education. Programs for which fact sheets have been developed are marked with an For this preliminary draft, a number of programs from the following list were selected to be

Effective Programs: The following programs are research-based and have consistently produced positive results as reported in the literature on substance abuse, violence and disruptive behavior prevention.⁵

Across Ages

Adolescent Training and Learning to Avoid Steroids (ATLAS) Project

Anger Coping Intervention (Lochman)

BASIS

Big Brothers/Sisters of America

Bry's Behavioral Monitoring and Reinforcement Program*

Bullying Prevention Program

Child Development Project (CDP)*

Effective Schools Project

Families and Schools Together (FAST)*

Focus on Families*

Growing Healthy*

Life Skills Training Program (LST)*

The Midwestern Prevention Project (MPP)*

Preparing for the Drug-Free Years*

Project Northland*

Project PATHE

Promoting Alternative Thinking Strategies (PATHS)*

Quantum Opportunities

Reconnecting Youth (RC)*

Rotheram's Social Skills Training (RSST)*

Strengthening Families Program (SFP)*

Structural Family Therapy (SFT) Program for Hispanic Families*

Student Training through Urban Strategies (STATUS)

Young Negotiators Weissburg's Social Competence Promotion Program (WSCPP)*

Research-Based Programs: Following programs can also be categorized as research-based journal articles and evaluations of the research on prevention programs. changes in knowledge, attitudes, practices and skills – as reported in individual However, only certain aspects of the program have been shown to produce desired

Adolescent Alcohol Prevention Trial (AAPT)*
Adolescent Transitions Program (ATP)*

Alcohol Misuse Prevention Program

CHOICE Intervention

Here's Looking at You, Two and 2000

I'm Special*

Nebraska Network of Drug-Free Youth Program

Project ALERT*

Project CARE

Project SMART/SMART Leaders

Project Success

School Transitional Environment Project (STEP)

Seattle Social Development Project*

Teenage Health Teaching Modules

Promising Programs: The following programs are promising. They have been recognized publicly and have appeared in a professional journal or publication. have not been fully evaluated and/or evaluation results are pending.⁵ However, they

Effective Behavior Support (EBS)*

First Step to Success*

Lane School Program*

Multimodel School-Based Prevention Demonstration

PeaceBuilders*

Positive Adolescent Choices Training (PACT)

Project ACHIEVE*

The Resolving Conflict Creatively Program (RCCP)*

Second Step: A Violence Prevention Curriculum*

Society-Based programs, including: community policing, public service taxes on alcohol and tobacco drug supply interdiction to increase retail drug (i.e. tobacco) prices and increased announcements, warning of dangers of drug use and other risk taking behaviors;

Westerly Public Schools Program Systemwide Efforts in Westerly, Rhode Island

violence or disruptive behavior. have been demonstrated that they can be effective in preventing or reducing drug use Other examples of drug and violence prevention programs, strategies and approaches that

Drug Prevention Programs and Strategies/Approaches²

Adolescent Alcohol Prevention Trial Program

Alcohol Misuse Prevention Project

The Alert Drug Prevention Curriculum

D.A.R.E.

The Life Skills Training (LST) Program

Midwestern Prevention Program

Project Northland

Project SMART

Project STAR

Project STRIDE

Seattle Social Development Project

Parent Programs and Strategies/Approaches²

Adolescent Transition Program (ATP)

Focus on Families

Preparing for the Drug-Free years

Project Family

Strengthening Families Program

Violence Prevention Programs and Strategies/Approaches²

Big Brothers/Sisters of America

The Buddy System

Character Counts

Gang Prevention Curricula

Gang Resistance Education and Training (GREAT)

The Intervention Campaign Against Bully/Victims Problems

Juvenile Mentoring Program

The Montreal Longitudinal Study of Disruptive Boys

PeaceBuilders

Peaceful Solutions Peer Mediation Training Program

The Peer Mediation Program

Promoting Alternative Thinking Strategies (PATHS)

Resolving Conflict Creatively Program (RCCP)

Richmond Youth Violence Prevention Program

Teaching Students to be Peacemakers

General/Other Programs and Strategies/Approaches²

The Child Development Project

Growing Healthy: School Health Curriculum Project

The Improving Social Awareness-Social Problem Solving Project

Know Your Body

Michigan Model

The Perry Preschool Project

The Positive Youth Development Program
Reconnecting Youth Program
The Social Relations Intervention Program
Teenage Health Teaching Modules

<	☑ Key Elements of Promising Violence Prevention Programs ⁶
	Activities designed to foster norms against violence, aggression and bullying.
	Skills training based on a strong theoretical foundation.
	I A comprehensive, multifaceted approach, including family, peer, media and community.
	Physical and administrative changes to promote a positive schools climate.
	At least 10-20 booster sessions during the first year of a well organized, well implemented program and 5-10 booster sessions in the succeeding two years.
	Interactive teaching, including group work, cooperative learning, discussions and role-plays that allow students to practice social skills.
	Developmentally tailored interventions which recognize that risk factors for violent behavior appear to be age and stage specific.
	Culturally sensitive material appropriate to the racial, ethnic and demographic characteristics of highly diverse student populations.
	Teacher training to ensure that programs will be implemented as intended by the program developers.

☑ Key Elements of Effective Drug Prevention Curricula⁷ Contains material that is easy for teacher to implement and culturally relevant for Covers necessary prevention elements in at least ten sessions a year (with a minimum Includes teacher training and support Actively involves the family and the community and cooperative learning Uses interactive teaching techniques, such as role plays, discussion, brainstorming Provides developmentally appropriate material and activities, including information Teaches that using drugs, alcohol and tobacco are not the norm among teenagers, even if students think that "everyone is doing it" (Research suggest this is normative Develops personal, social and refusal skills to resist those pressures Helps students recognize internal pressures, like anxiety and stress, and external students of three to five booster sessions in two succeeding years) about the short-term effects and long-term consequences of alcohol, tobacco and education is essential in prevention.) other drugs pressures, like peer attitudes and advertising that influence them to use alcohol and

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Programs providing only dialectic information without helping students develop skill necessary to avoid and handle conflict	Programs that focus exclusively on self-esteem	Instructional programs that are too brief and not supported by a positive school administration	Segregating aggressive or anti-social students into a separate group establishes a negative peer group and can be counterproductive	Adding a violence prevention programs to a school that is already overwhelmed	Scare tactics that show pictures or videos containing violent scenes	Violence Prevention Components of Dubious Value or Possible Harm ⁶

☑ What Does Not Work in Prevention of Alcohol and Other

Drug Use and Prevention of Violence ⁸
Information-only programs about negative effects of drugs
Programs that focus only on increasing self-esteem
Scare tactics
Testimonies of ex-addicts
Holding students back from promotion to the next grade
Pre-packaged curricula used in isolation
One-shot programs such as assemblies
Mentoring relationships that do not include reinforcement of appropriate behavior
Citizen patrols
Peer counseling
Youth employment and vocational training programs without an intensive educational

Source Citations for Principle Three: Scientifically Based Research Programs

- H.R. 1, the No Child Left Behind Act of 2001, Title IV 21st Century Schools, Part A: Safe and Drug-Free Schools and Communities Act (Public Law 107-110).
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- 4. Kent Intermediate School District, Required Elements, 1999.
- S Draft. June 7, 1998. Newton, MA. Inc., Health and Human Development Programs. Applying Effective Strategies to Prevent or Reduce Substance Abuse, Violence and Disruptive Behavior Among Youth. Skattergood, P., Dash, K., Epstein, J., Adler, M., Education Development Center,
- 6. Safe Schools, Safe Students - A Guide to Violence Prevention Strategies (adapted)
- Making the Grade: A Guide To School Drug Prevention Programs (adapted)
- Developing Safe and Healthy Kids. California Department of Education, 1998